

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/032306 A2

(51) International Patent Classification⁷:

H02J

(74) Agents: **NORTON, Gerard, P.** et al.; Lerner, David, Lit-
tenberg, Krumholz & Mentlik, LLP, 600 South Avenue
West, Westfield, NJ 07090 (US).

(21) International Application Number:

PCT/US2003/031457

(22) International Filing Date: 3 October 2003 (03.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/415,701

3 October 2002 (03.10.2002) US

(71) Applicant (for all designated States except US): **POW-
ERZYME, INC.** [US/US]; 11 Deer Park Drive, Suite 202,
Monmouth Junction, NJ 08852 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RITTS, Rosalyn**
[US/US]; 53 Hun Road, Princeton, NJ 08540 (US). **SUN,
Hoi-Cheong, Steve** [US/US]; 1504 Blossom Circle, Day-
ton, NJ 08810 (US). **WHIPPLE, Richard, T.** [US/US];
91 First Avenue, Raritan, NJ 08869 (US). **LIPP, Steven,
Alan** [US/US]; 9 Woodland Court, West Windsor, NJ
08550 (US). **KLATSKIN, Susan** [US/US]; 6 Rickard
Court, Lawrenceville, NJ 08502 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

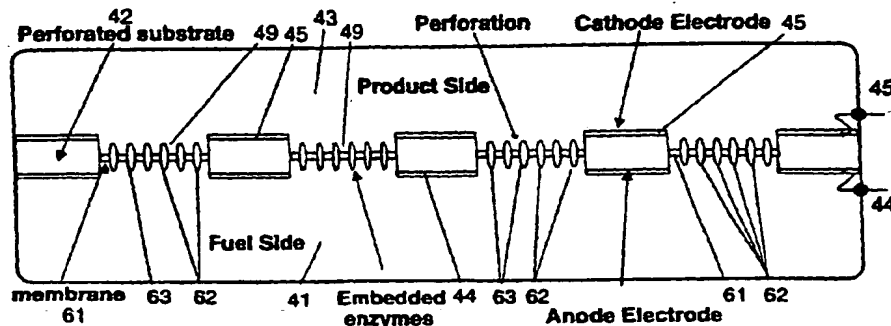
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FUEL CELLS INCLUDING BIOCOMPATIBLE MEMBRANES AND METAL ANODES



(57) Abstract: The present invention relates to a fuel cell including a metal anode as fuel and a biocompatible membrane.

WO 2004/032306 A2